

<400> 33																
ttg	aaa	aga	att	atc	aca	ttg	act	gtg	gtg	aac	cgc	tcc	ggg	gtg	tta	48
Met	Lys	Arg	Ile	Ile	Thr	Leu	Thr	Val	Val	Asn	Arg	Ser	Gly	Val	Leu	
1				5					10					15		
aac	cgg	atc	acc	ggg	cta	ttc	aca	aaa	agg	cat	tac	aac	att	gaa	agc	96
Asn	Arg	Ile	Thr	Gly	Leu	Phe	Thr	Lys	Arg	His	Tyr	Asn	Ile	Glu	Ser	
			20					25					30			
att	aca	ggt	gga	cac	aca	gaa	aca	gcc	ggc	ggt	tcc	aga	atc	acc	ttc	144
Ile	Thr	Val	Gly	His	Thr	Glu	Thr	Ala	Gly	Val	Ser	Arg	Ile	Thr	Phe	
		35					40					45				
gtc	ggt	cat	ggt	gaa	ggg	gaa	aat	gat	ggt	gaa	cag	tta	acg	aaa	cag	192
Val	Val	His	Val	Glu	Gly	Glu	Asn	Asp	Val	Glu	Gln	Leu	Thr	Lys	Gln	

50	55	60	
ctc aac aaa cag att gat gtg ctg aaa gtc aca gac atc aca aat caa			240
Leu Asn Lys Gln Ile Asp Val Leu Lys Val Thr Asp Ile Thr Asn Gln			
65	70	75	80
tcg att gtc cag agg gag ctg gcc tta atc aag gtt gtc tcc gca cct			288
Ser Ile Val Gln Arg Glu Leu Ala Leu Ile Lys Val Val Ser Ala Pro			
	85	90	95
tca aca aga aca gag att aat gga atc ata gaa ccg ttt aga gcc tct			336
Ser Thr Arg Thr Glu Ile Asn Gly Ile Ile Glu Pro Phe Arg Ala Ser			
	100	105	110
gtc gtt gat gtc agc aga gac agc atc gtt gtt cag gtg aca ggt gaa			384
Val Val Asp Val Ser Arg Asp Ser Ile Val Val Gln Val Thr Gly Glu			
	115	120	125
tct aac aaa att gaa gcg ctt att gag tta tta aaa cct tat ggc att			432
Ser Asn Lys Ile Glu Ala Leu Ile Glu Leu Leu Lys Pro Tyr Gly Ile			
	130	135	140
aaa gaa atc gcg aga aca ggt aca acg gct ttt gcg agg gga acc agc			480
Lys Glu Ile Ala Arg Thr Gly Thr Thr Ala Phe Ala Arg Gly Thr Ser			
	145	150	155
aaa agg cgt cat cca ata aaa caa tat cta ttg tat aaa aca taa			525
Lys Arg Arg His Pro Ile Lys Gln Tyr Leu Leu Tyr Lys Thr			
	165	170	
<210> 34			
<211> 174			
<212> PRT			
<213> Bacillus subtilis			
<400> 34			
Met Lys Arg Ile Ile Thr Leu Thr Val Val Asn Arg Ser Gly Val Leu			
1	5	10	15
Asn Arg Ile Thr Gly Leu Phe Thr Lys Arg His Tyr Asn Ile Glu Ser			
	20	25	30
Ile Thr Val Gly His Thr Glu Thr Ala Gly Val Ser Arg Ile Thr Phe			
	35	40	45
Val Val His Val Glu Gly Glu Asn Asp Val Glu Gln Leu Thr Lys Gln			
	50	55	60
Leu Asn Lys Gln Ile Asp Val Leu Lys Val Thr Asp Ile Thr Asn Gln			
	65	70	75
Ser Ile Val Gln Arg Glu Leu Ala Leu Ile Lys Val Val Ser Ala Pro			
	85	90	95
Ser Thr Arg Thr Glu Ile Asn Gly Ile Ile Glu Pro Phe Arg Ala Ser			
	100	105	110
Val Val Asp Val Ser Arg Asp Ser Ile Val Val Gln Val Thr Gly Glu			
	115	120	125

T08080"6954950

Lys Arg Arg His Pro Ile Lys Gln Tyr Leu Leu Tyr Lys Thr
165 170

```
<220>
<221> CDS
<222> (1)..(1026)
```

<400> 35																	
atg	gta	aaa	gta	tat	tat	aac	ggt	gat	atc	aaa	gag	aac	gta	ttg	gct	48	
Met	Val	Lys	Val	Tyr	Tyr	Asn	Gly	Asp	Ile	Lys	Glu	Asn	Val	Leu	Ala		
1				5				10						15			
gga	aaa	aca	gta	gcg	gtt	atc	ggg	tac	ggt	tcg	caa	ggc	cac	gca	cat	96	
Gly	Lys	Thr	Val	Ala	Val	Ile	Gly	Tyr	Gly	Ser	Gln	Gly	His	Ala	His		
		20						25				30					
gcc	ctg	aac	ctt	aaa	gaa	agc	gga	gta	gac	gtg	atc	gtc	ggg	gtt	aga	144	
Ala	Leu	Asn	Leu	Lys	Glu	Ser	Gly	Val	Asp	Val	Ile	Val	Gly	Val	Arg		
		35				40						45					
caa	gga	aaa	tct	ttc	act	caa	gcc	caa	gaa	gac	gga	cat	aaa	gta	ttt	192	
Gln	Gly	Lys	Ser	Phe	Thr	Gln	Ala	Gln	Glu	Asp	Gly	His	Lys	Val	Phe		
50						55				60							
tca	gta	aaa	gaa	gcg	gca	gcc	caa	gcc	gaa	atc	atc	atg	gtt	ctg	ctt	240	
Ser	Val	Lys	Glu	Ala	Ala	Ala	Gln	Ala	Glu	Ile	Ile	Met	Val	Leu	Leu		
65				70						75				80			
ccg	gat	gag	cag	cag	caa	aaa	gta	tac	gaa	gct	gaa	atc	aaa	gat	gaa	288	
Pro	Asp	Glu	Gln	Gln	Gln	Lys	Val	Tyr	Glu	Ala	Glu	Ile	Lys	Asp	Glu		
				85				90						95			
ttg	aca	gca	gga	aaa	tca	tta	gta	ttc	gct	cat	gga	ttt	aac	gtg	cat	336	
Leu	Thr	Ala	Gly	Lys	Ser	Leu	Val	Phe	Ala	His	Gly	Phe	Asn	Val	His		
		100						105				110					
ttc	cat	caa	att	gtt	cct	ccg	gcg	gat	gta	gat	gta	ttc	tta	gtg	gcc	384	
Phe	His	Gln	Ile	Val	Pro	Pro	Ala	Asp	Val	Asp	Val	Phe	Leu	Val	Ala		
		115				120						125					
cct	aaa	ggc	ccg	gga	cac	ttg	gta	aga	aga	aca	tat	gag	caa	gga	gct	432	
Pro	Lys	Gly	Pro	Gly	His	Leu	Val	Arg	Arg	Thr	Tyr	Glu	Gln	Gly	Ala		
130						135				140							
ggc	gta	cct	gca	ttg	ttc	gca	atc	tat	caa	gat	gtg	act	gga	gaa	gca	480	
Gly	Val	Pro	Ala	Leu	Phe	Ala	Ile	Tyr	Gln	Asp	Val	Thr	Gly	Glu	Ala		
145				150						155				160			
aga	gac	aaa	gcc	ctc	gct	tat	gct	aaa	gga	atc	ggc	ggc	gca	aga	gcg	528	